

**ABSTRACT OF THE DISCLOSURE**

A gas sensing device comprising at least one of a thermocouple and a thermopile generating a voltage, a voltage regulator converting the voltage thereby producing a converted voltage, and a gas sensor powered by the converted voltage. Another embodiment describes a power supply for producing an output at a given voltage value. The power supply comprises an input for receiving an input voltage varying in at least a first and a second voltage ranges. The second voltage range comprises voltage values above the first voltage range. The power supply further comprises a primary voltage regulator for converting the input voltage from the first voltage range to the given voltage value when the input voltage comprises values in said first voltage range. Finally, the power supply comprises a secondary voltage regulator for converting the input voltage from the second voltage range to the given voltage value when the input voltage comprises values in said first voltage range. The secondary voltage regulator being connected in parallel with the primary voltage regulator.